

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P622901 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **LSF120-XX-PC-90W-7040**

Issue Date: 10/4/2022

Test Information

Test Method: LM-79-08
Report Number: P622901 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (2022-09-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/4/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LSF120-XX-PC-90W-7040
Description: Flood light with selectable wattage and CCT
Light Source: (1) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

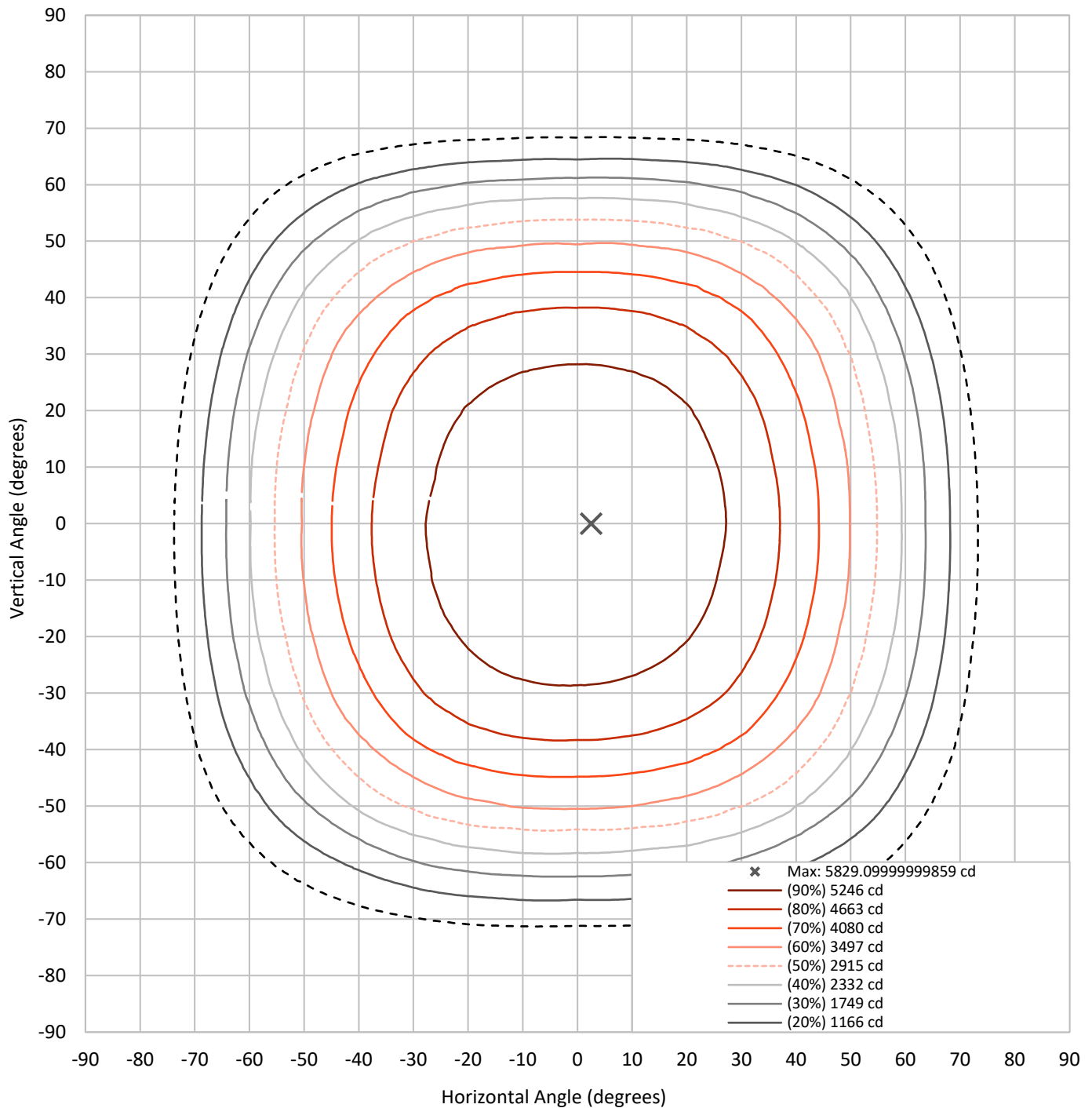
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15481.4 lumens	Max Intensity:	5829.1 candela
Efficiency:	N/A	Max Intensity Angle:	2.5°H x 0°V
Efficacy:	170.7 lumens/watt		
Luminous Opening:	Rectangular (W 0.18m x L: 2.6m x H: 0m)		
Beam Angle (50%):	110.3°H x 108°V	Field Angle (10%):	147°H x 139.6°V
Beam Lumens:	12520.9 lumens	Field Lumens:	15223.7 lumens
Beam Efficiency:	80.9%	Field Efficiency:	98.3%
Input Watts (W):	90.7		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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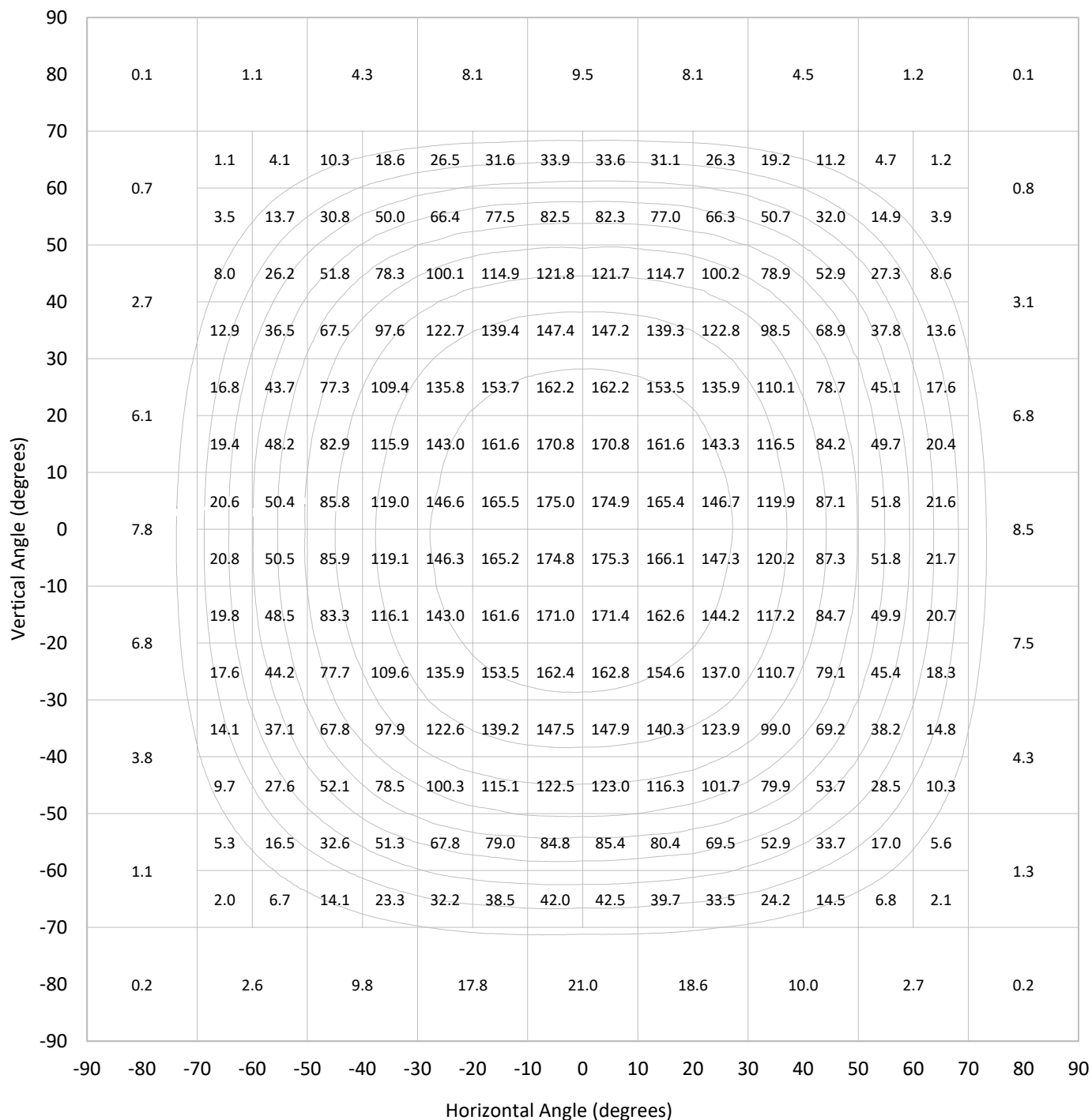
Iso-Candela Plot





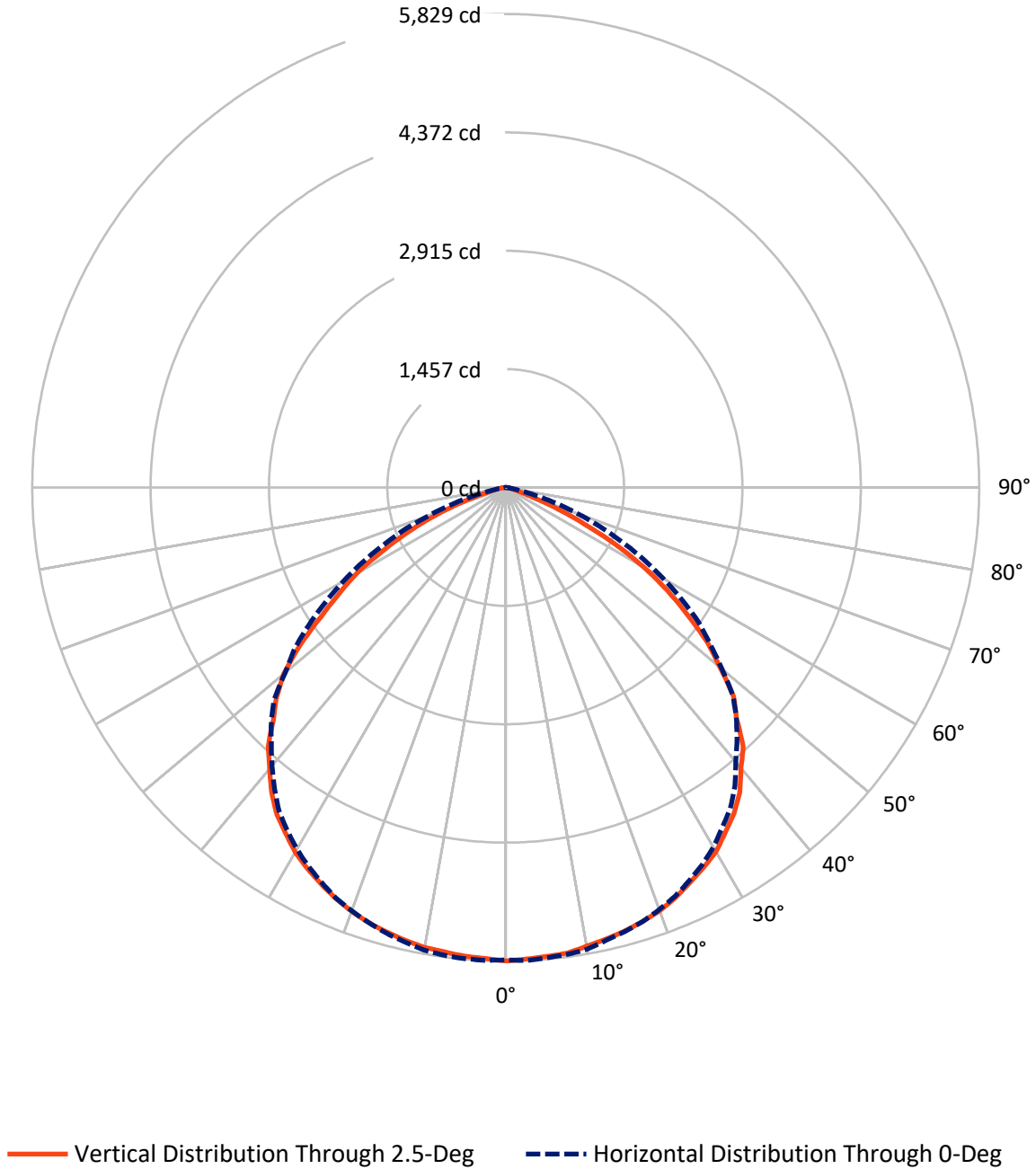
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Lumen Table



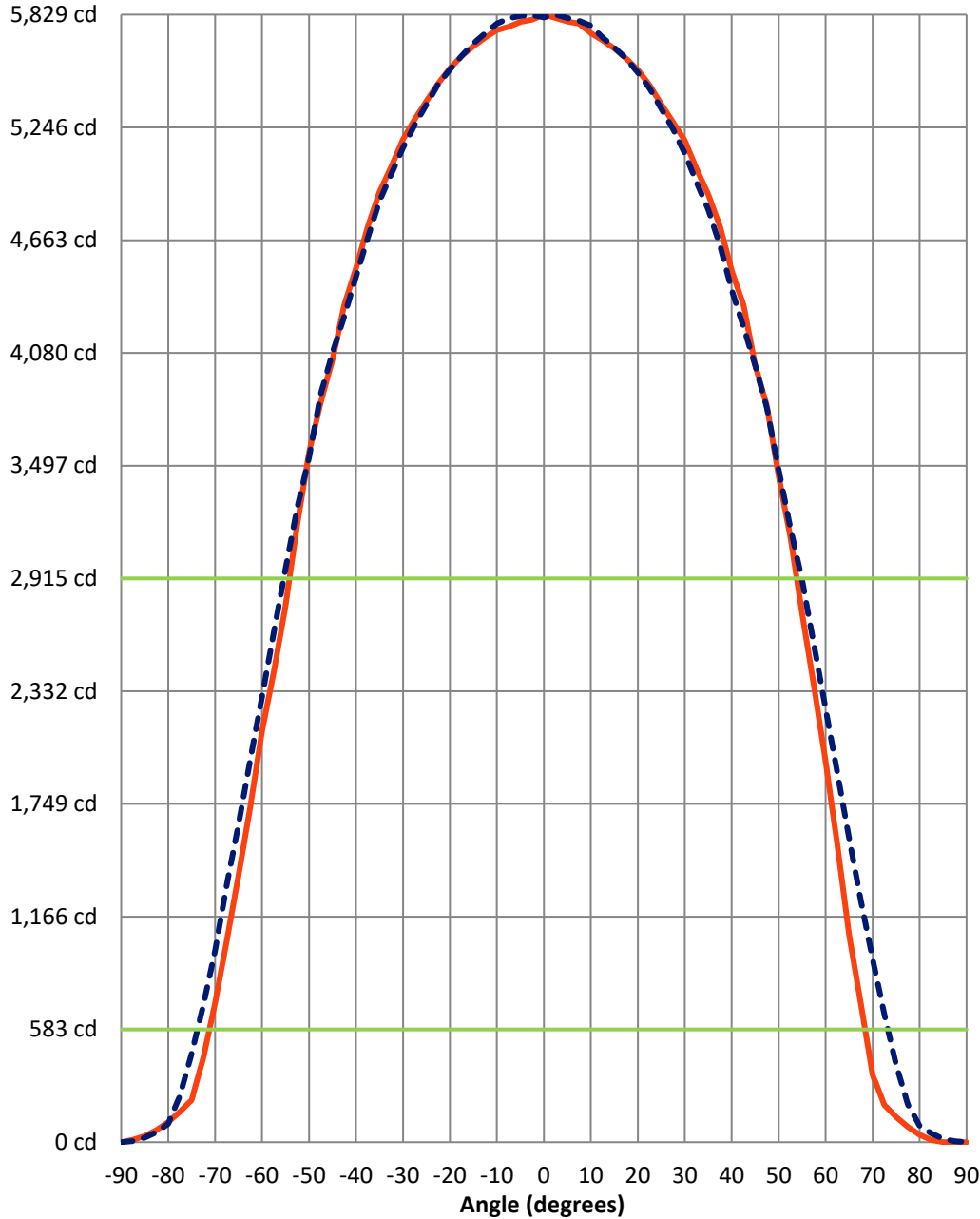
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 110.3°
 V Angle: 108°
 Lumens: 12520.9
 Efficiency: 80.9%

Field:
 H Angle: 147°
 V Angle: 139.6°
 Lumens: 15223.7
 Efficiency: 98.3%

Spill:
 Lumens: 257.7
 Efficiency: 1.7%

— Vertical Distribution through 2.5-Deg
 - - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.2	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4
85°	0.0	0.3	0.6	0.7	0.8	0.8	0.8	0.9	0.9	0.9	1.0
82.5°	0.0	0.5	0.8	1.1	1.3	1.4	1.4	2.0	2.4	2.6	2.9
80°	0.0	0.7	1.1	1.6	1.9	2.4	3.3	4.1	5.0	5.9	6.9
77.5°	0.0	0.8	1.5	2.1	2.8	4.2	5.5	6.7	8.0	9.4	11.3
75°	0.0	1.0	1.8	2.6	4.2	6.1	7.7	9.2	11.3	14.8	18.7
72.5°	0.0	1.1	2.2	3.6	5.7	8.4	10.0	12.7	17.4	23.6	30.6
70°	0.0	1.3	2.6	4.6	7.8	10.7	12.8	18.6	26.2	35.6	46.0
67.5°	0.0	1.4	3.0	5.7	9.9	13.1	18.2	26.4	37.5	50.0	63.2
65°	0.0	1.6	3.5	7.1	12.1	16.5	24.4	35.9	50.2	65.1	80.8
62.5°	0.0	1.8	4.2	8.9	14.2	20.8	31.4	47.0	63.3	80.5	102.0
60°	0.0	2.0	4.9	10.7	16.4	25.8	40.2	58.0	76.1	97.9	133.6
57.5°	0.0	2.2	5.6	12.5	19.7	31.5	49.4	68.8	90.9	121.3	184.9
55°	0.0	2.4	6.2	14.2	23.0	37.6	58.4	79.6	108.0	159.2	263.2
52.5°	0.0	2.6	7.0	16.0	26.4	44.8	67.3	93.3	127.6	217.6	356.4
50°	0.0	2.8	8.2	17.7	30.6	51.7	76.3	108.8	161.4	291.3	444.4
47.5°	0.0	3.0	9.3	19.6	34.8	58.6	85.9	128.5	210.2	371.2	542.5
45°	0.0	3.1	10.5	21.7	39.0	65.3	99.2	154.5	273.5	447.4	642.5
42.5°	0.0	3.3	11.6	23.8	43.9	72.0	112.7	185.8	341.9	528.7	739.4
40°	0.0	3.5	12.7	25.8	48.6	78.9	131.7	229.2	407.2	612.3	832.8
37.5°	0.0	3.6	13.7	27.7	53.1	85.5	151.1	278.0	470.2	691.9	921.1
35°	0.0	3.8	14.7	30.0	57.4	94.8	174.0	327.0	532.5	766.8	1010.9
32.5°	0.0	4.1	15.7	32.5	61.7	105.4	198.3	374.8	591.6	836.5	1102.4
30°	0.0	4.3	16.7	34.8	65.6	115.9	222.0	420.2	647.9	900.7	1183.7
27.5°	0.0	4.5	17.5	36.9	69.4	127.2	253.5	464.6	702.5	960.1	1259.0
25°	0.0	4.6	18.4	38.9	73.0	141.5	284.4	506.2	752.5	1021.1	1333.2
22.5°	0.0	4.8	19.2	40.8	76.7	155.3	312.9	543.5	796.7	1079.6	1400.4
20°	0.0	5.0	19.9	42.6	80.0	168.5	339.4	575.1	836.2	1131.6	1456.5
17.5°	0.0	5.1	20.6	44.5	83.1	181.1	364.2	602.5	871.1	1177.6	1505.1
15°	0.0	5.2	21.2	46.1	85.9	193.2	386.2	625.9	902.0	1217.9	1546.7
12.5°	0.0	5.3	21.8	47.5	88.3	204.6	405.3	647.4	928.4	1252.5	1581.5
10°	0.0	5.4	22.3	48.7	90.4	214.7	421.6	667.9	950.2	1281.4	1608.6
7.5°	0.0	5.5	22.7	49.7	92.2	223.4	435.0	684.3	967.4	1303.9	1628.3
5°	0.0	5.6	23.1	50.5	93.6	230.7	445.5	696.6	980.0	1319.9	1640.8
2.5°	0.0	5.6	23.4	51.1	94.6	236.4	453.3	704.9	988.0	1329.6	1646.5
0°	0.0	5.6	23.6	51.4	95.2	240.4	458.3	709.0	991.3	1333.0	1645.6
-2.5°	0.0	5.7	23.6	51.5	95.7	241.5	460.2	711.0	995.3	1335.3	1648.8
-5°	0.0	5.7	23.6	51.4	95.8	240.9	459.3	708.9	994.6	1331.4	1645.8
-7.5°	0.0	5.7	23.5	51.1	95.5	238.6	455.7	702.8	989.0	1321.3	1636.6
-10°	0.0	5.6	23.3	50.6	94.7	234.7	449.2	692.6	978.6	1305.0	1621.1
-12.5°	0.0	5.6	23.0	49.8	93.4	229.1	440.0	678.3	963.2	1283.0	1599.4
-15°	0.0	5.5	22.6	48.9	91.6	221.9	427.9	663.8	942.7	1256.4	1571.6
-17.5°	0.0	5.4	22.2	47.7	89.3	213.1	413.1	648.3	917.1	1225.1	1537.6
-20°	0.0	5.3	21.7	46.3	86.5	202.7	395.5	629.5	888.7	1189.2	1497.6

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Scaled Data Report



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CATALOG NUMBER: LSF120-XX-PC-90W-7040

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	5.2	21.2	44.9	83.2	190.7	375.1	607.3	856.2	1147.0	1451.4
-25°	0.0	5.1	20.5	43.4	79.3	177.2	351.8	579.2	819.0	1098.9	1393.8
-27.5°	0.0	4.9	19.8	41.7	75.9	162.1	325.6	546.5	776.2	1046.3	1330.2
-30°	0.0	4.7	19.1	39.9	72.7	148.5	297.8	511.4	729.1	989.6	1270.3
-32.5°	0.0	4.5	18.2	37.9	69.3	134.3	276.0	474.9	683.5	929.1	1205.7
-35°	0.0	4.3	17.3	35.7	65.5	118.5	252.4	435.9	639.3	867.6	1128.7
-37.5°	0.0	4.1	16.4	33.6	61.6	104.3	227.2	393.2	591.1	801.2	1038.9
-40°	0.0	4.0	15.3	31.9	57.7	95.5	200.4	346.6	540.3	730.6	947.0
-42.5°	0.0	3.8	14.3	30.0	53.5	85.9	172.0	303.0	486.2	660.9	856.6
-45°	0.0	3.7	13.1	28.0	49.1	77.9	145.7	267.9	428.6	589.5	761.8
-47.5°	0.0	3.5	11.9	25.9	45.1	71.6	117.3	231.2	364.3	520.0	667.1
-50°	0.0	3.3	10.7	24.0	41.1	65.1	100.6	193.0	304.3	446.4	576.9
-52.5°	0.0	3.1	9.4	22.1	36.8	58.8	85.2	154.2	256.4	367.1	497.6
-55°	0.0	2.9	8.5	20.1	33.3	52.2	75.8	115.9	207.8	295.7	416.0
-57.5°	0.0	2.7	7.8	18.0	29.8	46.2	67.0	95.2	158.8	241.3	322.5
-60°	0.0	2.5	6.9	15.9	26.2	40.3	58.6	79.5	114.6	186.4	258.1
-62.5°	0.0	2.2	6.1	13.8	23.4	34.9	50.2	68.5	89.7	131.8	198.3
-65°	0.0	2.0	5.2	11.6	20.5	29.8	42.7	58.0	75.0	98.3	138.8
-67.5°	0.0	1.8	4.5	9.6	17.5	25.4	35.6	48.1	62.2	78.1	99.6
-70°	0.0	1.6	3.9	8.1	14.5	21.7	29.0	39.0	50.3	63.0	77.1
-72.5°	0.0	1.4	3.4	6.5	11.4	18.0	24.3	30.9	39.6	49.5	60.3
-75°	0.0	1.2	2.8	5.0	9.0	14.1	19.8	24.9	30.3	37.8	45.8
-77.5°	0.0	1.0	2.3	4.1	6.5	10.5	15.2	19.5	23.7	28.0	33.4
-80°	0.0	0.8	1.8	3.1	4.7	7.1	10.6	14.0	17.4	20.9	24.4
-82.5°	0.0	0.6	1.3	2.2	3.4	4.7	6.2	8.6	11.1	13.7	16.3
-85°	0.0	0.4	0.9	1.5	2.1	2.9	3.9	4.8	5.8	6.8	8.3
-87.5°	0.0	0.2	0.5	0.7	1.1	1.4	1.8	2.2	2.6	3.1	3.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622901 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF120-XX-PC-90W-7040

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3
85°	1.0	0.8	0.8	0.8	0.8	1.0	0.9	0.7	0.7	0.6	0.6
82.5°	3.4	4.0	4.4	4.8	5.0	5.1	5.2	5.2	5.9	6.7	7.4
80°	7.9	9.0	9.7	10.3	11.1	13.1	14.7	16.2	18.5	20.7	22.6
77.5°	13.2	15.5	18.9	22.3	26.2	29.6	33.8	37.3	41.6	46.7	51.3
75°	23.4	29.0	34.4	41.7	48.2	54.9	61.3	67.3	73.4	80.5	86.5
72.5°	38.2	47.8	57.2	66.1	74.7	84.0	94.6	104.1	112.3	122.5	132.3
70°	57.4	69.1	80.5	94.3	110.4	131.0	147.5	156.4	186.1	218.1	243.4
67.5°	76.8	91.2	114.3	146.1	179.1	213.4	256.1	303.3	356.5	395.2	434.7
65°	99.9	130.7	180.6	231.5	295.8	354.7	426.4	500.4	570.9	625.1	676.7
62.5°	137.9	199.3	282.5	362.5	440.1	531.3	619.2	703.4	784.8	896.4	977.0
60°	201.6	299.4	401.6	504.9	610.2	712.1	812.5	957.7	1082.8	1199.4	1304.4
57.5°	293.2	409.4	534.4	662.1	778.6	911.1	1086.6	1222.5	1373.6	1508.6	1613.2
55°	395.1	530.7	676.0	817.4	985.8	1167.0	1327.1	1496.9	1638.6	1796.3	1885.3
52.5°	499.1	659.7	815.6	1007.4	1213.1	1389.9	1575.8	1744.9	1888.1	2074.2	2255.9
50°	615.2	786.1	969.5	1208.9	1413.7	1618.7	1808.0	1960.0	2191.0	2353.5	2514.6
47.5°	728.5	910.7	1160.1	1379.4	1620.2	1831.2	2012.3	2249.3	2413.8	2626.7	2847.7
45°	838.6	1069.0	1307.3	1558.3	1803.3	2013.1	2266.6	2450.8	2683.4	2889.7	3043.0
42.5°	944.9	1206.6	1460.2	1723.2	1961.4	2249.6	2454.9	2687.9	2906.8	3080.4	3218.1
40°	1074.4	1334.5	1608.0	1879.1	2154.1	2400.1	2657.3	2889.9	3090.8	3240.8	3463.8
37.5°	1186.3	1461.2	1746.9	2001.4	2295.9	2564.8	2824.7	3073.7	3236.4	3476.3	3649.0
35°	1288.8	1580.3	1875.8	2167.7	2431.2	2703.2	2985.2	3204.7	3450.1	3646.8	3808.7
32.5°	1391.8	1693.8	1969.0	2279.9	2568.0	2846.6	3099.9	3352.7	3618.6	3788.6	3944.0
30°	1484.7	1802.0	2091.9	2386.0	2668.1	2966.6	3202.3	3502.0	3726.7	3894.1	4057.0
27.5°	1570.6	1888.1	2192.9	2491.5	2783.8	3048.3	3338.6	3591.0	3820.0	3981.1	4166.8
25°	1650.5	1953.0	2279.3	2577.1	2878.4	3137.6	3437.2	3689.4	3889.9	4080.5	4265.3
22.5°	1721.7	2032.1	2350.2	2634.9	2943.9	3236.0	3500.1	3775.5	3960.3	4149.4	4345.8
20°	1783.7	2101.2	2419.9	2725.8	2993.6	3316.9	3570.5	3836.9	4029.6	4218.8	4403.4
17.5°	1834.3	2162.6	2487.0	2794.6	3069.0	3366.7	3652.5	3887.5	4078.7	4269.4	4463.5
15°	1875.5	2216.9	2534.9	2844.8	3132.7	3416.6	3720.4	3932.5	4118.9	4304.7	4530.7
12.5°	1912.1	2254.7	2570.2	2889.4	3185.3	3457.6	3771.8	3977.4	4161.8	4346.6	4555.3
10°	1942.7	2279.8	2599.5	2919.1	3227.4	3499.8	3808.8	4014.5	4199.3	4399.7	4588.6
7.5°	1963.7	2297.0	2623.4	2942.1	3256.3	3530.5	3839.6	4043.2	4228.3	4438.1	4621.4
5°	1976.4	2306.5	2637.2	2957.9	3274.2	3546.0	3857.6	4064.3	4250.4	4463.1	4649.0
2.5°	1981.5	2308.8	2641.3	2965.9	3283.2	3548.3	3867.5	4077.5	4264.2	4475.0	4666.9
0°	1979.5	2304.1	2636.7	2965.6	3281.6	3539.7	3869.1	4082.0	4268.9	4474.4	4674.6
-2.5°	1984.2	2311.2	2642.2	2967.6	3285.8	3550.2	3871.8	4081.9	4270.2	4479.9	4674.4
-5°	1981.7	2311.0	2639.0	2961.2	3279.8	3549.9	3866.4	4072.8	4261.7	4472.3	4664.4
-7.5°	1971.1	2302.4	2625.8	2946.8	3265.2	3536.7	3853.3	4055.0	4243.7	4450.5	4645.4
-10°	1951.7	2284.5	2602.5	2925.0	3238.3	3508.6	3826.4	4028.7	4218.7	4414.2	4621.7
-12.5°	1924.3	2256.7	2576.1	2896.1	3194.7	3469.0	3792.4	3995.6	4184.5	4375.8	4591.3
-15°	1892.3	2218.5	2545.1	2852.7	3137.9	3430.2	3741.0	3957.0	4143.9	4339.2	4550.7
-17.5°	1856.8	2175.1	2502.3	2803.8	3078.3	3383.8	3667.7	3915.1	4098.1	4297.0	4486.5
-20°	1808.4	2129.2	2440.1	2734.5	3007.6	3339.2	3585.5	3863.0	4040.6	4231.0	4432.9



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 CATALOG NUMBER: LSF120-XX-PC-90W-7040

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1745.7	2058.9	2368.4	2641.4	2958.0	3250.1	3516.1	3794.0	3982.8	4161.4	4373.9
-25°	1680.7	1977.1	2281.3	2592.3	2891.4	3150.0	3454.0	3702.9	3914.4	4076.5	4264.0
-27.5°	1617.3	1923.1	2213.1	2514.0	2790.6	3067.0	3353.9	3605.5	3833.2	4001.3	4168.3
-30°	1547.7	1837.2	2125.6	2407.5	2673.0	2988.0	3216.6	3517.3	3739.7	3911.4	4068.4
-32.5°	1469.7	1726.2	1996.5	2289.4	2588.5	2851.1	3122.9	3365.2	3633.0	3799.3	3966.1
-35°	1378.7	1634.5	1906.4	2199.5	2454.9	2706.0	3006.4	3224.7	3464.2	3657.4	3822.0
-37.5°	1283.6	1536.8	1779.4	2030.5	2313.1	2586.1	2822.6	3109.2	3259.9	3495.9	3656.2
-40°	1177.8	1429.8	1661.4	1903.2	2182.9	2422.6	2675.0	2896.2	3124.8	3270.5	3488.5
-42.5°	1069.5	1305.3	1543.3	1759.3	1988.0	2274.4	2487.7	2711.6	2921.7	3116.4	3254.0
-45°	960.8	1163.5	1416.5	1625.6	1830.7	2048.7	2295.5	2506.0	2720.2	2912.3	3082.4
-47.5°	850.9	1039.0	1243.5	1486.2	1679.3	1853.5	2065.2	2283.2	2484.1	2688.3	2878.3
-50°	736.2	915.2	1087.1	1311.1	1519.2	1674.5	1834.1	2035.3	2236.7	2416.2	2609.5
-52.5°	620.8	784.8	952.1	1106.2	1325.9	1487.9	1632.8	1781.1	1961.3	2147.5	2292.6
-55°	523.3	649.4	806.1	959.3	1091.5	1273.2	1425.2	1556.7	1691.6	1831.4	2010.6
-57.5°	435.9	527.4	652.4	796.6	922.4	1046.4	1181.3	1330.3	1443.7	1563.7	1688.6
-60°	337.6	434.4	511.8	624.4	749.9	856.5	969.1	1076.2	1195.3	1302.4	1410.4
-62.5°	259.7	329.7	414.7	480.1	564.6	676.7	771.9	847.5	960.6	1045.1	1139.5
-65°	195.8	247.8	299.8	373.9	431.3	489.0	575.2	662.9	734.8	792.4	876.6
-67.5°	132.4	180.6	223.6	261.1	310.7	360.9	413.4	460.5	524.0	594.1	653.1
-70°	94.2	118.2	153.2	184.3	215.6	246.0	279.7	308.6	354.1	396.2	432.4
-72.5°	71.8	86.0	102.2	118.3	140.0	158.3	182.6	205.9	229.3	253.0	275.9
-75°	54.4	63.9	73.3	84.2	94.7	106.1	115.7	123.6	130.5	150.8	165.3
-77.5°	39.6	46.2	53.0	59.9	67.2	74.2	81.9	88.8	95.5	102.1	108.4
-80°	27.9	31.5	36.1	40.6	45.2	50.3	55.2	60.0	64.7	69.1	73.3
-82.5°	18.9	21.6	24.1	26.5	28.9	31.3	33.8	36.9	39.6	42.2	44.7
-85°	10.0	11.8	13.4	15.0	16.6	18.2	19.8	21.3	22.5	23.8	24.9
-87.5°	4.1	4.7	5.2	5.6	6.1	6.6	7.1	7.5	7.9	8.3	8.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622901 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF120-XX-PC-90W-7040

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.9	1.2	1.6	1.7	1.7	1.5	1.2	0.9	0.4	0.4	0.4
82.5°	8.2	8.9	9.3	9.4	9.5	9.6	9.9	10.4	10.8	11.2	11.5
80°	24.7	26.7	28.3	30.1	31.8	33.7	35.1	36.1	36.6	37.5	38.1
77.5°	55.5	59.4	62.8	65.8	68.5	70.9	72.9	74.6	75.8	77.3	78.4
75°	92.5	98.3	103.4	108.4	112.9	116.5	119.6	122.2	123.9	126.4	128.4
72.5°	145.9	156.8	160.1	162.3	168.1	173.2	177.7	181.3	183.9	186.9	189.6
70°	256.1	254.4	257.9	286.0	312.8	321.3	315.5	301.2	306.1	325.4	344.5
67.5°	471.7	504.6	536.7	567.6	596.7	620.7	639.7	653.4	661.6	675.7	693.5
65°	735.4	794.5	834.1	864.9	923.0	965.0	996.0	1017.2	1030.6	1049.9	1070.9
62.5°	1047.2	1128.7	1198.7	1264.3	1329.5	1372.1	1402.5	1429.6	1438.4	1444.7	1470.5
60°	1398.1	1487.8	1553.9	1611.4	1674.7	1748.9	1805.6	1839.2	1879.0	1896.3	1909.8
57.5°	1713.1	1789.3	1925.0	2010.0	2059.5	2121.9	2180.7	2249.3	2280.0	2285.8	2310.7
55°	2058.0	2166.4	2246.8	2351.2	2421.1	2450.9	2531.1	2600.7	2650.0	2673.1	2691.2
52.5°	2339.3	2482.9	2588.0	2665.6	2773.5	2865.9	2888.2	2931.5	2983.2	3038.1	3084.7
50°	2704.4	2801.7	2917.2	2995.6	3066.7	3179.4	3286.9	3317.2	3331.7	3339.4	3387.4
47.5°	2960.6	3057.9	3148.4	3313.0	3432.1	3500.0	3545.4	3615.5	3674.4	3721.5	3750.2
45°	3164.7	3311.7	3464.6	3565.3	3649.8	3718.5	3797.2	3876.2	3931.6	3949.0	3963.3
42.5°	3415.6	3561.5	3676.0	3778.5	3883.6	4010.3	4088.2	4111.5	4159.8	4232.2	4279.2
40°	3622.3	3764.9	3902.6	4020.1	4143.8	4198.1	4267.6	4344.5	4411.5	4432.3	4436.0
37.5°	3803.9	3983.3	4103.4	4225.1	4295.6	4383.9	4495.9	4531.8	4595.0	4647.3	4677.3
35°	3974.4	4132.1	4286.7	4359.3	4482.8	4567.4	4662.8	4713.6	4748.9	4808.1	4852.9
32.5°	4110.4	4269.4	4384.2	4529.8	4627.4	4722.0	4769.5	4842.2	4912.4	4952.8	4979.1
30°	4231.9	4375.1	4527.4	4649.6	4753.1	4810.3	4911.3	4992.7	5047.6	5076.6	5120.2
27.5°	4339.5	4492.7	4634.6	4754.3	4840.4	4942.6	5023.6	5081.5	5129.9	5183.4	5213.8
25°	4442.0	4593.0	4729.0	4832.2	4944.4	5029.5	5109.6	5178.7	5241.3	5279.8	5332.0
22.5°	4509.2	4681.5	4801.5	4922.4	5025.7	5121.5	5196.0	5270.6	5331.8	5384.7	5408.5
20°	4594.9	4742.1	4877.0	4998.8	5100.8	5190.1	5285.4	5343.7	5398.5	5455.1	5491.0
17.5°	4642.2	4797.8	4934.6	5065.3	5164.9	5255.4	5331.6	5404.5	5466.1	5516.6	5545.7
15°	4680.3	4845.5	4988.5	5104.6	5211.2	5302.5	5380.6	5452.4	5514.6	5558.5	5604.1
12.5°	4721.2	4877.7	5021.3	5147.5	5245.0	5337.9	5422.9	5490.8	5548.5	5608.2	5646.8
10°	4765.4	4902.4	5042.1	5170.1	5278.3	5374.4	5453.5	5521.4	5581.2	5639.3	5677.7
7.5°	4801.5	4947.0	5072.8	5188.5	5291.7	5401.8	5482.2	5551.3	5615.0	5668.3	5708.4
5°	4829.6	4976.6	5109.1	5219.2	5330.9	5430.8	5504.8	5572.1	5643.1	5689.6	5735.6
2.5°	4852.4	4994.5	5130.6	5245.0	5353.9	5452.6	5527.7	5597.9	5664.2	5712.3	5745.7
0°	4865.5	5004.0	5140.2	5259.2	5363.9	5469.2	5545.1	5615.8	5680.5	5732.8	5782.5
-2.5°	4860.5	5003.4	5138.3	5257.5	5364.7	5462.4	5544.1	5616.5	5679.3	5733.9	5775.8
-5°	4845.5	4993.4	5125.7	5242.1	5354.0	5448.7	5535.3	5609.9	5664.3	5713.3	5758.7
-7.5°	4824.3	4972.5	5100.7	5221.8	5328.1	5428.7	5514.1	5586.3	5639.8	5685.5	5725.7
-10°	4794.7	4938.4	5077.3	5204.7	5322.4	5406.9	5487.8	5561.5	5614.5	5657.8	5695.5
-12.5°	4752.1	4913.5	5057.0	5170.2	5280.0	5370.1	5462.8	5523.6	5585.0	5638.8	5671.0
-15°	4713.7	4881.3	5013.5	5129.9	5248.2	5349.2	5419.2	5490.4	5550.9	5589.7	5632.0
-17.5°	4675.4	4825.9	4964.9	5101.8	5187.8	5282.1	5373.1	5444.8	5496.0	5544.2	5573.2
-20°	4610.3	4772.0	4914.4	5023.5	5141.2	5223.6	5301.3	5383.4	5428.4	5480.3	5518.1

Classified

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P622901 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: LSF120-XX-PC-90W-7040

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	4536.2	4708.6	4836.6	4969.5	5057.4	5162.7	5236.0	5295.9	5360.5	5393.0	5434.9
-25°	4467.1	4610.7	4761.4	4876.3	4989.9	5067.8	5159.8	5225.8	5278.1	5310.2	5348.6
-27.5°	4360.8	4523.3	4666.0	4791.4	4895.6	4985.9	5061.2	5123.9	5195.8	5232.2	5252.7
-30°	4246.4	4407.7	4560.7	4695.9	4788.7	4868.1	4955.3	5030.6	5077.4	5109.4	5147.9
-32.5°	4121.1	4295.1	4420.9	4564.0	4677.0	4748.8	4814.8	4892.4	4948.7	4980.5	5007.8
-35°	3997.4	4150.7	4321.6	4401.8	4513.2	4610.5	4698.4	4745.3	4788.0	4842.1	4879.2
-37.5°	3818.5	4004.8	4133.2	4256.5	4340.6	4427.8	4524.8	4577.7	4634.7	4671.0	4699.5
-40°	3627.8	3770.1	3936.5	4059.4	4158.7	4243.2	4310.8	4386.5	4438.9	4466.8	4484.6
-42.5°	3454.5	3573.3	3690.2	3820.5	3932.8	4053.9	4109.3	4152.4	4202.7	4268.6	4305.0
-45°	3206.3	3369.7	3494.1	3598.8	3690.3	3773.7	3853.8	3927.5	3979.0	4001.5	4021.3
-47.5°	3004.5	3110.7	3249.9	3383.9	3474.1	3555.8	3623.6	3680.6	3727.4	3764.8	3792.3
-50°	2770.7	2886.9	2974.7	3072.0	3212.7	3310.5	3348.3	3382.0	3435.8	3505.9	3537.9
-52.5°	2437.6	2551.7	2710.0	2818.2	2887.0	2930.7	3013.1	3091.9	3145.2	3152.3	3171.9
-55°	2123.4	2228.9	2329.6	2409.7	2513.1	2646.4	2690.5	2713.9	2715.9	2719.8	2779.7
-57.5°	1811.4	1943.6	2016.1	2085.7	2162.4	2232.7	2287.9	2323.8	2368.6	2408.2	2439.4
-60°	1516.2	1617.6	1712.6	1802.1	1870.6	1900.4	1927.5	1991.1	2054.1	2090.0	2104.7
-62.5°	1235.1	1319.0	1399.7	1474.6	1539.7	1597.9	1639.7	1669.2	1687.0	1699.9	1717.9
-65°	948.0	1018.5	1094.4	1166.4	1214.8	1258.1	1288.3	1307.9	1325.8	1361.0	1388.8
-67.5°	706.1	756.3	802.8	835.5	881.6	927.1	962.8	989.3	1006.8	1024.2	1043.0
-70°	475.2	518.8	557.5	593.5	622.6	651.1	677.1	699.1	711.3	720.8	727.8
-72.5°	302.3	325.8	344.8	365.1	382.5	399.6	414.5	425.8	433.5	439.9	444.2
-75°	179.7	195.5	210.3	222.9	231.0	234.8	234.8	231.3	224.7	224.5	225.3
-77.5°	114.7	120.8	126.7	131.7	136.1	140.1	143.5	146.4	149.5	152.8	155.3
-80°	77.4	81.4	85.0	88.2	91.0	93.8	96.1	98.0	99.6	101.1	102.3
-82.5°	47.2	49.7	51.9	53.7	55.3	56.7	57.9	59.2	60.2	61.1	61.8
-85°	26.0	27.0	28.0	28.7	29.4	29.9	30.4	30.8	31.2	31.4	31.6
-87.5°	9.2	9.7	10.3	10.7	11.0	11.3	11.6	11.9	12.1	12.3	12.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622901 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF120-XX-PC-90W-7040

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
82.5°	11.6	11.7	11.6	11.4	11.6	11.6	11.5	11.3	11.0	10.5	10.1
80°	38.5	38.6	38.5	38.1	38.4	38.4	38.2	37.7	37.0	36.1	35.4
77.5°	79.1	79.4	79.3	78.8	79.2	79.2	78.9	78.1	76.9	75.4	73.8
75°	129.7	130.4	130.4	129.7	130.2	130.1	129.3	127.8	125.6	123.1	121.1
72.5°	191.5	192.7	193.0	192.5	193.0	192.6	191.3	189.2	186.2	183.1	180.9
70°	353.8	354.8	348.7	337.1	348.8	355.6	357.0	352.3	341.0	329.1	323.6
67.5°	705.8	712.2	712.4	706.3	714.0	715.2	710.2	699.0	681.8	669.7	662.8
65°	1080.6	1079.8	1069.5	1050.6	1071.7	1083.9	1086.1	1077.1	1055.7	1032.6	1015.9
62.5°	1499.1	1517.0	1524.4	1521.4	1533.7	1537.3	1533.4	1523.7	1502.5	1481.1	1460.6
60°	1927.3	1944.4	1956.3	1958.3	1966.6	1963.6	1952.8	1937.5	1920.9	1893.2	1851.8
57.5°	2340.4	2354.9	2355.4	2345.6	2358.7	2360.8	2347.9	2318.9	2297.0	2288.0	2256.0
55°	2708.7	2722.2	2729.6	2729.1	2731.3	2725.3	2713.1	2696.3	2678.1	2662.3	2633.5
52.5°	3110.8	3120.6	3124.4	3117.7	3126.5	3125.1	3118.3	3100.2	3069.8	3027.0	2950.7
50°	3429.7	3444.0	3435.8	3410.9	3442.1	3456.2	3446.9	3408.4	3358.2	3339.9	3320.3
47.5°	3776.9	3793.9	3802.0	3801.5	3804.1	3798.3	3783.9	3758.4	3727.6	3681.5	3628.7
45°	3992.4	4010.0	4016.6	4012.9	4017.5	4012.1	3996.5	3970.4	3956.9	3944.8	3887.0
42.5°	4312.2	4323.2	4328.1	4325.2	4327.4	4320.9	4307.4	4279.5	4239.2	4165.2	4117.0
40°	4469.5	4490.2	4497.4	4494.1	4505.6	4504.1	4484.6	4445.5	4435.9	4414.1	4366.7
37.5°	4694.6	4722.1	4732.9	4730.9	4734.0	4724.5	4699.0	4683.9	4657.8	4617.0	4539.6
35°	4875.4	4889.2	4899.1	4902.7	4899.3	4889.3	4875.1	4855.4	4814.0	4754.5	4715.7
32.5°	5002.1	5018.6	5028.3	5027.1	5032.4	5030.1	5015.6	4978.1	4947.5	4913.0	4858.2
30°	5160.3	5161.9	5174.0	5184.7	5178.0	5164.1	5149.4	5119.6	5077.5	5045.1	4989.1
27.5°	5238.3	5259.2	5271.6	5271.2	5273.2	5265.3	5244.5	5218.9	5185.6	5162.0	5082.3
25°	5345.2	5357.3	5365.6	5365.7	5365.9	5358.2	5346.3	5334.7	5285.7	5252.6	5184.2
22.5°	5446.5	5463.5	5467.4	5464.9	5464.5	5453.6	5438.9	5408.4	5384.6	5338.4	5276.3
20°	5521.2	5537.9	5539.0	5540.8	5544.1	5543.5	5524.9	5493.8	5454.0	5398.2	5344.5
17.5°	5583.6	5599.2	5605.9	5606.4	5602.4	5596.9	5583.1	5555.8	5513.7	5462.4	5401.6
15°	5634.7	5643.8	5653.7	5658.1	5654.0	5641.8	5629.6	5605.8	5556.2	5504.3	5454.2
12.5°	5673.4	5690.8	5695.1	5695.4	5696.1	5692.4	5671.7	5640.9	5596.8	5548.6	5491.2
10°	5706.0	5722.7	5735.8	5733.1	5733.8	5727.1	5714.4	5674.2	5636.3	5590.5	5528.6
7.5°	5745.9	5759.2	5767.7	5766.3	5782.3	5763.6	5750.6	5720.3	5671.0	5624.0	5560.3
5°	5764.2	5789.3	5796.2	5795.0	5793.6	5785.4	5776.1	5746.9	5703.2	5647.6	5583.8
2.5°	5775.6	5793.0	5804.9	5804.7	5811.5	5804.1	5794.0	5754.8	5714.4	5657.1	5597.2
0°	5809.7	5822.0	5826.7	5814.9	5829.1	5811.9	5796.8	5771.8	5710.9	5659.2	5602.2
-2.5°	5803.5	5811.2	5819.1	5814.0	5803.3	5788.9	5773.6	5736.8	5698.8	5644.9	5590.3
-5°	5781.8	5795.9	5800.3	5788.9	5791.1	5771.7	5765.0	5721.8	5678.5	5626.1	5571.3
-7.5°	5761.7	5767.8	5772.3	5768.5	5766.5	5748.4	5742.8	5704.9	5653.4	5607.9	5548.0
-10°	5728.2	5745.3	5750.6	5760.1	5748.9	5731.0	5711.2	5684.0	5636.1	5586.2	5527.0
-12.5°	5705.6	5712.0	5717.8	5722.1	5710.4	5697.0	5682.5	5648.3	5608.3	5555.7	5499.2
-15°	5663.1	5670.8	5673.3	5667.3	5666.0	5659.5	5633.9	5599.9	5566.1	5512.7	5450.9
-17.5°	5600.5	5619.2	5623.7	5620.7	5615.7	5603.2	5584.8	5553.3	5512.2	5459.4	5404.2
-20°	5536.7	5552.6	5561.9	5556.3	5551.7	5537.4	5518.5	5491.1	5448.9	5397.6	5350.7



REPORT NUMBER: P622901 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF120-XX-PC-90W-7040

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5462.1	5469.9	5477.7	5473.2	5473.3	5463.8	5447.3	5414.4	5373.9	5328.5	5263.5
-25°	5362.6	5384.4	5388.8	5379.1	5382.2	5372.5	5348.2	5326.2	5279.9	5236.5	5179.9
-27.5°	5275.6	5291.8	5294.2	5288.9	5288.2	5278.2	5255.9	5224.8	5191.1	5149.0	5085.3
-30°	5174.0	5184.0	5192.2	5193.8	5183.8	5167.1	5148.1	5117.2	5078.7	5038.5	4988.4
-32.5°	5035.0	5048.4	5050.7	5044.1	5043.1	5033.9	5013.8	4979.7	4950.1	4910.2	4847.6
-35°	4895.6	4908.6	4916.8	4918.7	4912.0	4900.2	4885.8	4861.8	4815.2	4754.5	4707.2
-37.5°	4718.2	4736.9	4740.5	4731.1	4732.2	4718.9	4690.0	4667.3	4637.1	4589.5	4523.0
-40°	4510.1	4523.5	4525.0	4516.3	4518.6	4510.1	4488.4	4453.4	4430.4	4398.0	4342.1
-42.5°	4327.3	4334.4	4335.2	4327.5	4327.8	4319.4	4303.9	4268.7	4222.7	4160.7	4116.4
-45°	4039.7	4051.2	4054.7	4049.1	4046.3	4033.9	4012.7	3983.2	3965.7	3939.7	3873.7
-47.5°	3813.8	3827.4	3831.7	3826.6	3825.9	3815.4	3795.1	3767.9	3734.9	3692.3	3638.8
-50°	3553.3	3566.7	3572.4	3564.9	3565.0	3550.6	3526.5	3497.2	3455.0	3390.3	3341.4
-52.5°	3193.2	3203.8	3204.2	3195.4	3195.5	3186.4	3166.9	3136.2	3107.7	3090.8	3021.9
-55°	2807.7	2808.5	2788.6	2754.8	2775.0	2782.9	2773.3	2741.3	2684.0	2676.5	2662.3
-57.5°	2448.5	2449.9	2443.3	2426.6	2432.0	2425.5	2407.5	2380.0	2345.5	2317.3	2287.6
-60°	2119.5	2130.8	2135.0	2128.4	2126.1	2112.4	2090.6	2063.7	2035.0	1993.9	1939.3
-62.5°	1731.5	1739.7	1741.5	1736.0	1735.4	1727.3	1712.7	1692.5	1667.6	1649.8	1627.3
-65°	1401.2	1400.6	1389.3	1369.7	1381.8	1385.7	1378.8	1358.8	1323.6	1281.7	1259.5
-67.5°	1053.5	1055.8	1051.4	1041.5	1044.3	1041.9	1033.5	1018.1	993.4	964.4	941.0
-70°	731.7	731.9	727.9	719.2	720.2	716.9	710.4	701.5	691.4	681.3	666.2
-72.5°	445.6	443.8	438.7	430.1	437.7	441.7	442.1	439.1	432.7	421.8	408.3
-75°	225.0	223.7	221.6	218.6	218.6	217.8	216.4	214.2	211.3	210.0	216.1
-77.5°	157.0	157.8	158.0	157.5	157.4	156.8	155.7	153.9	151.5	148.7	146.0
-80°	103.1	103.7	103.9	103.8	103.9	103.6	103.0	102.0	100.6	98.9	97.2
-82.5°	62.4	62.6	62.7	62.6	62.6	62.4	62.0	61.4	60.5	59.5	58.3
-85°	31.8	31.8	31.8	31.7	31.7	31.6	31.4	31.1	30.8	30.4	29.9
-87.5°	12.5	12.5	12.6	12.6	12.5	12.4	12.2	12.1	11.8	11.6	11.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622901 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF120-XX-PC-90W-7040

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
85°	1.1	1.4	1.6	1.6	1.5	1.2	0.9	0.5	0.6	0.6	0.6
82.5°	9.6	9.3	9.2	9.0	8.9	8.8	8.6	8.2	7.8	7.2	6.5
80°	34.4	33.0	31.0	29.2	27.4	25.6	23.5	21.3	19.4	17.2	14.8
77.5°	71.9	69.6	67.0	64.1	60.9	57.6	53.9	49.6	44.9	39.7	35.3
75°	118.3	115.1	111.1	106.4	100.9	95.3	89.2	83.2	77.6	71.5	65.2
72.5°	177.0	171.3	165.1	159.2	155.8	150.8	139.2	125.4	116.0	106.5	98.0
70°	325.7	322.3	310.4	285.7	253.4	239.4	238.7	228.4	202.8	171.8	143.0
67.5°	645.8	623.3	595.1	560.4	521.0	481.8	443.7	394.3	336.2	313.8	276.9
65°	992.2	958.5	935.3	909.8	846.3	776.2	718.0	655.8	589.8	517.5	431.5
62.5°	1428.4	1384.2	1325.8	1248.9	1172.7	1103.0	1041.5	947.1	847.7	762.8	662.9
60°	1818.8	1766.6	1690.0	1643.0	1568.2	1470.3	1353.8	1256.4	1161.6	1030.6	890.6
57.5°	2194.7	2130.6	2051.7	2000.7	1915.5	1779.3	1699.2	1583.6	1449.0	1319.5	1172.6
55°	2563.8	2459.7	2410.4	2337.8	2232.0	2124.3	2024.0	1859.3	1746.3	1594.8	1433.5
52.5°	2882.5	2857.2	2799.6	2694.8	2565.9	2468.3	2316.2	2190.1	2028.3	1850.1	1684.4
50°	3298.5	3203.6	3077.3	2978.4	2908.3	2805.4	2657.8	2499.2	2301.6	2135.9	1934.8
47.5°	3552.5	3498.5	3428.5	3325.6	3148.9	3034.2	2944.9	2797.7	2598.6	2361.4	2194.2
45°	3798.9	3714.6	3636.5	3541.9	3452.9	3315.0	3141.6	3016.2	2839.7	2637.6	2384.7
42.5°	4090.9	4029.3	3879.9	3771.3	3630.9	3524.7	3410.4	3195.7	3049.0	2837.7	2637.1
40°	4267.1	4199.7	4136.8	4019.5	3894.2	3714.6	3564.6	3424.9	3213.8	3055.9	2802.3
37.5°	4491.4	4403.9	4296.1	4208.2	4091.8	3961.9	3766.7	3584.1	3412.2	3203.5	3033.0
35°	4670.6	4561.2	4475.4	4363.6	4262.2	4108.7	3947.2	3765.6	3578.2	3355.6	3168.8
32.5°	4774.5	4709.2	4631.6	4510.5	4377.5	4240.9	4074.9	3908.1	3737.8	3539.9	3265.5
30°	4915.1	4833.7	4731.4	4647.1	4506.2	4355.0	4194.3	4019.5	3846.7	3666.0	3415.1
27.5°	5025.9	4940.5	4859.6	4731.5	4618.6	4475.0	4301.4	4119.4	3949.0	3756.6	3520.6
25°	5120.6	5037.2	4945.0	4835.3	4709.3	4565.2	4418.6	4204.9	4017.9	3841.1	3609.4
22.5°	5205.9	5128.2	5017.9	4921.0	4793.9	4659.8	4493.4	4307.2	4108.2	3921.1	3696.4
20°	5284.5	5188.3	5094.0	4981.9	4861.7	4727.1	4558.9	4376.8	4165.2	3976.7	3775.4
17.5°	5328.5	5250.4	5147.7	5036.1	4926.1	4771.7	4624.5	4428.6	4229.1	4035.7	3837.0
15°	5379.0	5289.4	5197.1	5100.6	4960.1	4829.4	4665.1	4487.1	4271.1	4076.7	3881.9
12.5°	5424.7	5337.2	5239.9	5123.9	5009.0	4870.2	4693.8	4530.2	4304.7	4113.8	3926.0
10°	5461.5	5373.4	5275.6	5171.2	5048.4	4886.6	4730.3	4566.9	4345.8	4153.7	3961.2
7.5°	5487.6	5409.0	5309.0	5196.9	5074.0	4920.6	4769.2	4597.1	4383.2	4184.6	3988.0
5°	5508.5	5433.4	5325.0	5219.8	5091.8	4946.6	4799.1	4618.6	4404.6	4204.1	4005.9
2.5°	5522.9	5443.6	5337.1	5233.2	5105.2	4961.1	4816.7	4631.4	4411.4	4214.1	4014.8
0°	5529.5	5447.8	5342.2	5237.0	5112.0	4962.9	4820.8	4635.0	4405.5	4215.3	4014.6
-2.5°	5515.9	5433.5	5331.2	5229.1	5101.9	4961.4	4816.0	4634.3	4415.6	4216.9	4017.7
-5°	5492.1	5411.9	5312.2	5213.2	5082.6	4948.0	4800.4	4624.0	4414.3	4209.5	4012.0
-7.5°	5476.0	5389.1	5289.5	5183.7	5054.0	4922.6	4777.6	4605.0	4400.3	4192.5	3997.7
-10°	5453.4	5367.6	5266.4	5157.9	5035.8	4887.0	4747.8	4581.0	4372.8	4167.8	3975.4
-12.5°	5424.3	5338.4	5238.0	5124.5	5013.6	4865.2	4707.2	4549.4	4327.8	4136.8	3942.1
-15°	5382.7	5297.1	5198.7	5090.4	4965.0	4833.9	4670.1	4504.9	4284.3	4098.0	3896.9
-17.5°	5337.5	5245.2	5151.5	5049.4	4914.9	4781.4	4630.4	4446.7	4243.5	4054.9	3850.6
-20°	5272.7	5181.1	5092.8	4980.0	4867.1	4720.3	4569.0	4380.9	4199.9	3999.6	3794.6



REPORT NUMBER: P622901 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF120-XX-PC-90W-7040

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	5191.0	5116.5	5020.3	4920.6	4789.2	4660.1	4495.1	4317.1	4126.5	3933.1	3721.1
-25°	5113.0	5035.8	4951.7	4837.7	4714.6	4570.4	4413.6	4248.3	4044.6	3855.2	3624.4
-27.5°	5022.4	4952.6	4860.7	4746.8	4622.0	4475.6	4319.0	4138.4	3959.3	3772.3	3542.2
-30°	4913.8	4832.6	4749.6	4648.0	4512.7	4360.1	4210.5	4031.2	3858.9	3675.9	3449.9
-32.5°	4779.1	4713.5	4621.2	4518.6	4377.5	4250.7	4078.9	3914.4	3751.0	3570.2	3287.9
-35°	4646.0	4551.9	4470.2	4354.2	4267.9	4101.5	3947.4	3785.0	3600.9	3381.4	3162.7
-37.5°	4470.4	4381.3	4286.0	4207.8	4081.7	3954.8	3793.6	3608.0	3421.1	3197.2	3029.6
-40°	4259.1	4199.4	4121.9	4002.7	3889.8	3767.4	3585.1	3414.8	3205.5	3054.1	2826.1
-42.5°	4078.9	3989.2	3866.3	3782.8	3670.5	3527.4	3373.0	3187.5	3049.8	2855.7	2652.5
-45°	3794.2	3724.4	3651.7	3550.8	3440.9	3294.5	3140.7	3019.6	2855.5	2663.2	2401.4
-47.5°	3572.0	3504.9	3430.5	3324.5	3174.2	3044.7	2950.3	2823.7	2633.8	2380.2	2212.6
-50°	3308.5	3248.7	3129.0	2997.7	2919.5	2824.2	2705.0	2539.2	2326.5	2174.5	1945.0
-52.5°	2935.5	2876.1	2821.2	2731.7	2621.5	2507.3	2351.4	2230.0	2086.3	1880.9	1733.5
-55°	2610.5	2531.0	2449.6	2381.4	2283.0	2158.3	2075.1	1918.4	1775.7	1638.2	1503.0
-57.5°	2263.0	2206.7	2093.1	2022.7	1963.9	1872.0	1754.1	1631.4	1505.1	1411.3	1286.5
-60°	1886.5	1857.4	1825.6	1748.6	1654.9	1555.7	1452.0	1376.8	1274.9	1158.0	1047.7
-62.5°	1591.9	1542.8	1476.3	1402.6	1347.5	1291.6	1184.5	1099.7	1010.1	912.4	844.7
-65°	1242.0	1220.7	1161.9	1085.1	1043.9	990.2	913.9	846.6	791.0	701.9	629.6
-67.5°	917.0	891.4	857.1	812.7	759.9	714.0	665.7	613.6	561.5	516.8	466.8
-70°	641.4	613.8	584.3	556.9	529.6	495.9	459.8	424.3	383.9	352.8	323.7
-72.5°	391.6	372.0	353.9	336.4	316.7	305.1	293.5	278.4	260.4	239.1	213.2
-75°	219.5	220.1	217.3	211.0	202.2	193.1	181.3	168.6	153.5	131.9	123.8
-77.5°	142.9	139.3	135.1	130.3	125.3	119.6	113.4	106.8	100.2	93.2	86.2
-80°	95.0	92.5	89.7	86.7	83.4	79.6	75.4	71.0	66.7	62.1	57.2
-82.5°	57.0	55.5	54.0	52.2	50.3	47.9	45.3	42.6	40.0	37.3	34.5
-85°	29.4	28.8	28.2	27.4	26.6	25.6	24.4	23.3	22.0	20.7	19.4
-87.5°	11.0	10.6	10.2	9.8	9.3	8.7	8.1	7.6	7.2	6.8	6.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622901 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: LSF120-XX-PC-90W-7040

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
85°	0.9	1.0	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.8	0.7
82.5°	5.9	5.4	4.9	4.5	4.1	3.7	3.1	2.6	2.3	2.2	1.7
80°	14.0	13.0	11.3	10.1	9.1	8.2	7.1	6.1	5.2	4.4	3.6
77.5°	31.8	27.6	24.2	20.5	17.4	14.1	11.9	10.1	8.3	7.0	5.8
75°	58.8	52.3	45.5	39.1	32.0	26.7	21.4	17.0	13.3	9.9	8.0
72.5°	89.0	80.1	71.3	62.7	53.9	44.6	35.0	28.0	21.5	15.6	11.1
70°	134.6	119.5	100.7	88.0	76.2	65.1	53.7	42.1	32.3	23.9	16.6
67.5°	227.5	189.0	159.2	130.2	102.8	86.0	72.4	59.0	45.6	33.8	24.0
65°	367.7	317.4	255.4	202.3	158.3	116.4	93.0	76.1	60.6	45.4	32.4
62.5°	560.8	457.5	385.4	314.0	242.6	173.8	122.6	94.9	75.7	58.4	41.7
60°	776.0	658.9	540.6	435.6	350.1	257.4	175.3	119.5	92.0	71.3	52.8
57.5°	1000.8	857.8	725.4	592.9	464.0	359.2	253.3	160.3	110.6	85.4	63.7
55°	1280.7	1079.9	909.1	760.4	610.4	468.2	345.4	228.3	139.3	100.4	74.5
52.5°	1515.1	1350.7	1116.9	926.1	760.6	597.4	446.4	308.6	188.3	116.3	87.0
50°	1734.4	1556.9	1377.6	1109.8	905.3	732.0	555.8	397.0	252.9	140.9	100.4
47.5°	1985.2	1748.1	1558.9	1329.3	1063.2	857.2	675.0	491.3	323.8	181.3	115.6
45°	2214.3	1992.1	1718.4	1498.5	1238.6	988.4	789.3	591.0	401.1	236.8	135.2
42.5°	2378.3	2195.3	1911.6	1646.8	1405.3	1129.2	890.5	691.2	482.8	298.3	158.8
40°	2606.2	2331.6	2093.7	1783.0	1537.4	1272.8	1003.5	786.9	567.5	359.0	195.7
37.5°	2739.9	2498.1	2239.3	1959.0	1663.9	1398.0	1118.8	869.7	646.9	420.5	238.8
35°	2912.0	2639.0	2342.3	2086.6	1776.4	1505.2	1229.3	952.9	721.5	482.9	282.9
32.5°	3057.2	2738.0	2501.5	2214.9	1913.9	1616.6	1327.3	1040.4	791.0	545.0	326.6
30°	3140.7	2901.6	2601.6	2297.6	2007.8	1702.3	1410.2	1123.8	852.2	602.7	368.4
27.5°	3237.3	2996.6	2678.6	2410.0	2106.6	1791.7	1491.7	1199.7	908.4	655.9	409.9
25°	3358.3	3060.2	2785.0	2505.4	2201.3	1885.4	1573.1	1266.2	967.0	704.5	448.2
22.5°	3434.0	3135.1	2882.2	2568.0	2259.8	1950.4	1639.4	1326.2	1023.1	748.4	484.9
20°	3488.5	3222.6	2930.7	2625.0	2331.1	2009.0	1695.0	1380.6	1073.0	787.7	520.4
17.5°	3538.9	3297.5	2984.1	2685.1	2399.5	2074.8	1747.9	1429.7	1116.0	822.3	551.8
15°	3621.7	3351.5	3029.6	2752.6	2450.6	2127.9	1797.1	1472.6	1152.2	853.1	579.3
12.5°	3682.1	3392.7	3083.4	2801.6	2494.4	2164.9	1836.8	1507.4	1181.9	879.9	602.7
10°	3729.7	3427.1	3121.0	2836.6	2533.2	2193.4	1866.9	1534.3	1206.5	902.4	622.1
7.5°	3767.1	3452.6	3148.5	2866.4	2555.2	2216.0	1887.4	1553.7	1225.6	920.6	637.5
5°	3785.1	3469.2	3169.6	2889.0	2567.6	2231.8	1901.2	1565.9	1238.8	934.2	649.1
2.5°	3794.6	3476.9	3178.8	2902.4	2573.2	2239.9	1907.9	1571.3	1246.0	943.3	656.7
0°	3794.0	3475.8	3174.9	2904.4	2571.7	2239.6	1907.3	1570.5	1247.5	947.5	660.5
-2.5°	3796.7	3480.7	3183.0	2905.0	2577.0	2243.4	1912.1	1576.6	1252.0	950.3	663.1
-5°	3789.2	3476.4	3178.8	2894.4	2574.9	2238.6	1909.2	1576.6	1250.7	948.3	661.9
-7.5°	3773.0	3462.2	3164.4	2874.8	2565.0	2225.9	1898.5	1570.5	1243.1	941.4	656.8
-10°	3741.7	3437.9	3142.4	2848.3	2544.9	2205.8	1880.1	1558.1	1229.3	929.8	647.9
-12.5°	3704.5	3403.9	3106.2	2817.2	2510.3	2179.2	1856.1	1539.3	1210.1	913.6	635.2
-15°	3652.0	3365.1	3051.3	2776.0	2471.5	2146.1	1826.0	1514.0	1187.5	892.7	618.7
-17.5°	3567.0	3318.7	3006.1	2719.6	2425.5	2104.2	1789.4	1479.1	1159.2	867.4	598.7
-20°	3508.3	3263.0	2953.1	2660.2	2361.0	2053.1	1743.8	1436.9	1125.1	839.9	574.9



REPORT NUMBER: P622901 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: LSF120-XX-PC-90W-7040

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3453.9	3166.6	2905.6	2595.3	2291.5	1991.0	1690.9	1389.2	1085.2	808.5	547.5
-25°	3388.0	3076.8	2817.3	2535.3	2230.6	1921.4	1633.7	1331.4	1040.5	772.7	519.6
-27.5°	3272.4	3007.7	2714.7	2439.3	2147.1	1854.0	1571.0	1265.8	991.5	732.4	491.1
-30°	3147.1	2917.4	2625.2	2324.7	2050.7	1774.3	1500.6	1202.8	938.8	687.8	460.1
-32.5°	3058.3	2771.2	2516.7	2229.7	1937.0	1685.4	1419.8	1134.5	882.7	639.8	424.6
-35°	2924.9	2657.6	2363.7	2118.2	1843.7	1589.7	1319.2	1064.5	824.0	588.7	385.4
-37.5°	2764.6	2504.3	2242.8	1962.4	1734.2	1487.5	1220.8	985.6	760.3	539.1	346.1
-40°	2604.3	2335.7	2102.7	1851.2	1616.1	1371.0	1122.3	900.8	691.8	492.3	308.5
-42.5°	2390.0	2193.0	1924.0	1717.8	1491.7	1246.2	1022.8	816.6	618.4	438.6	272.5
-45°	2219.1	1967.7	1790.7	1576.5	1351.4	1123.7	912.1	727.5	547.3	379.4	240.9
-47.5°	1981.2	1815.3	1631.8	1426.4	1203.6	1000.4	813.1	637.9	478.7	329.1	208.2
-50°	1791.9	1625.8	1462.8	1258.9	1062.7	868.9	708.8	550.5	405.4	279.2	174.0
-52.5°	1580.9	1440.9	1269.1	1093.9	902.3	756.7	607.7	463.3	336.3	235.1	138.7
-55°	1383.6	1227.2	1077.6	913.7	778.2	640.3	503.4	384.5	274.8	190.3	103.9
-57.5°	1152.8	1021.6	883.5	770.7	648.7	524.7	411.2	302.6	224.5	145.2	88.1
-60°	937.5	828.7	724.3	628.2	521.1	416.5	320.6	243.3	173.5	105.0	74.7
-62.5°	740.5	653.3	577.9	482.3	405.3	318.2	248.1	187.5	122.7	84.5	63.7
-65°	568.0	503.2	419.5	372.6	293.5	240.1	188.0	131.7	92.6	70.4	53.5
-67.5°	401.4	363.2	312.4	258.5	219.9	176.4	128.0	94.6	73.6	57.8	44.0
-70°	288.3	249.2	215.7	182.9	151.9	116.1	89.7	72.8	58.7	46.3	35.5
-72.5°	185.8	158.8	139.3	117.4	98.9	81.6	67.8	56.3	45.7	36.1	29.1
-75°	114.6	104.1	91.2	80.5	69.6	60.2	50.7	42.2	34.7	28.4	22.8
-77.5°	78.9	71.1	63.9	56.5	49.6	42.8	36.4	30.7	25.8	21.4	16.6
-80°	52.3	47.3	42.3	37.6	33.0	28.4	25.3	21.9	18.3	14.5	10.5
-82.5°	31.3	28.8	26.4	24.0	21.6	19.2	16.6	13.7	11.0	8.7	6.7
-85°	17.9	16.4	14.8	13.2	11.7	10.1	8.3	6.7	5.5	4.6	3.8
-87.5°	5.9	5.4	5.0	4.5	4.1	3.7	3.2	2.8	2.3	2.0	1.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P622901 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: LSF120-XX-PC-90W-7040

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.3	0.2	0.2	0.1	0.1	0.0
85°	0.6	0.6	0.5	0.4	0.3	0.2	0.0
82.5°	1.2	1.2	1.0	0.6	0.4	0.2	0.0
80°	2.9	2.1	1.7	1.2	0.6	0.3	0.0
77.5°	4.8	3.7	2.6	1.8	0.9	0.4	0.0
75°	6.6	5.2	3.8	2.4	1.3	0.5	0.0
72.5°	8.5	6.7	5.1	3.3	1.8	0.6	0.0
70°	10.9	8.5	6.3	4.2	2.3	0.6	0.0
67.5°	16.0	10.5	7.5	5.1	2.8	0.7	0.0
65°	21.8	13.7	9.0	6.1	3.3	0.9	0.0
62.5°	28.4	17.9	10.9	7.0	3.9	1.2	0.0
60°	36.0	22.6	12.8	7.8	4.5	1.4	0.0
57.5°	43.9	28.0	16.0	8.7	5.1	1.7	0.0
55°	53.0	33.5	19.3	10.2	5.7	1.9	0.0
52.5°	61.8	40.0	22.7	11.7	6.2	2.2	0.0
50°	70.5	46.2	26.6	13.2	6.7	2.4	0.0
47.5°	79.3	53.1	30.5	14.8	7.3	2.6	0.0
45°	90.6	59.7	34.4	17.1	7.8	2.9	0.0
42.5°	101.7	66.1	39.0	19.2	8.3	3.1	0.0
40°	115.8	72.3	43.4	21.3	8.7	3.3	0.0
37.5°	130.1	78.1	47.7	23.3	9.2	3.5	0.0
35°	147.7	85.7	51.9	25.5	9.9	3.7	0.0
32.5°	167.2	94.1	56.1	27.7	10.7	3.9	0.0
30°	186.2	102.2	59.9	29.8	11.5	4.1	0.0
27.5°	214.0	110.7	63.5	31.7	12.2	4.3	0.0
25°	241.5	120.9	66.9	33.6	12.9	4.4	0.0
22.5°	266.9	130.7	70.0	35.2	13.5	4.6	0.0
20°	290.8	140.1	72.9	37.0	14.1	4.7	0.0
17.5°	313.7	148.9	75.4	38.8	14.7	4.8	0.0
15°	334.0	158.0	77.7	40.4	15.2	4.9	0.0
12.5°	351.7	167.3	79.7	41.8	15.6	5.0	0.0
10°	366.7	175.5	81.3	43.0	16.0	5.1	0.0
7.5°	379.1	182.5	82.7	43.9	16.3	5.2	0.0
5°	388.8	188.3	83.7	44.7	16.6	5.2	0.0
2.5°	395.9	192.7	84.5	45.3	16.8	5.3	0.0
0°	400.3	195.7	84.9	45.6	16.9	5.3	0.0
-2.5°	402.8	197.6	85.4	45.7	17.0	5.3	0.0
-5°	402.6	198.0	85.5	45.6	17.1	5.3	0.0
-7.5°	399.7	196.8	85.3	45.3	17.0	5.3	0.0
-10°	393.9	194.2	84.8	44.7	17.0	5.2	0.0
-12.5°	385.4	190.0	83.9	44.0	16.8	5.2	0.0
-15°	374.1	184.3	82.5	43.0	16.6	5.1	0.0
-17.5°	359.8	178.0	80.8	41.8	16.3	5.1	0.0
-20°	342.8	170.9	78.7	40.4	15.9	5.0	0.0

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Scaled Data Report



REPORT NUMBER: P622901 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: LSF120-XX-PC-90W-7040

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	324.7	162.4	76.2	39.0	15.5	4.9	0.0
-25°	305.2	152.5	73.2	37.7	15.0	4.7	0.0
-27.5°	283.5	141.1	70.3	36.2	14.4	4.6	0.0
-30°	260.5	130.2	67.2	34.5	13.7	4.4	0.0
-32.5°	241.4	118.5	63.9	32.7	13.0	4.3	0.0
-35°	220.7	105.3	60.2	30.7	12.2	4.1	0.0
-37.5°	199.0	93.5	56.4	28.7	11.5	3.9	0.0
-40°	177.0	86.8	52.4	27.0	11.0	3.7	0.0
-42.5°	153.1	79.4	48.2	25.2	10.5	3.5	0.0
-45°	130.0	72.6	43.7	23.3	9.9	3.3	0.0
-47.5°	104.8	66.5	40.0	21.2	9.2	3.0	0.0
-50°	91.5	60.0	36.2	19.4	8.5	2.8	0.0
-52.5°	79.7	53.7	32.2	17.6	7.8	2.5	0.0
-55°	70.8	47.2	29.0	15.7	7.2	2.3	0.0
-57.5°	62.1	41.5	25.9	13.7	6.6	2.0	0.0
-60°	53.8	35.9	22.7	12.2	5.9	1.7	0.0
-62.5°	45.7	31.1	19.8	10.7	5.3	1.5	0.0
-65°	38.6	26.9	16.8	9.1	4.6	1.2	0.0
-67.5°	32.4	22.8	14.0	7.7	4.0	1.0	0.0
-70°	27.3	18.7	11.4	6.6	3.4	0.9	0.0
-72.5°	22.1	14.7	8.7	5.4	2.7	0.8	0.0
-75°	16.9	10.9	7.1	4.3	2.1	0.7	0.0
-77.5°	11.6	7.9	5.3	3.3	1.5	0.5	0.0
-80°	7.9	5.6	3.9	2.4	1.1	0.4	0.0
-82.5°	5.0	3.8	2.6	1.4	0.8	0.3	0.0
-85°	3.0	2.1	1.4	0.9	0.5	0.2	0.0
-87.5°	1.4	1.0	0.7	0.5	0.3	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)